

COMPLETE LISTING OF CLAIMS

IN ASCENDING ORDER WITH STATUS INDICATOR

1-21. (Canceled)

22. (Original) A method comprising:

receiving a photoelectrically induced signal in an array of photoreceptors on a semiconductor substrate;

controlling each photoreceptor in the array of photoreceptors to simultaneously in the integration period;

at the end of each integration period, controlling each photoreceptor in the array of photoreceptors to transfer its photoelectrically induced signal to a separated storage node; and

preventing said separated storage node from integrating charge during a time other than during said integration period.

23. (Original) A method as in claim 22, wherein said preventing comprises forming said separated storage node in a separate semiconductor well within the semiconductor substrate.

24. (Original) A method as in claim 23, wherein said preventing further comprises forming said separated storage node with a light shield overlying at least said separated storage node.

25. (Original) A method as in claim 23, wherein said preventing further comprises forming said separate semiconductor well with a light shield overlying said semiconductor well.

26. (Original) A method as in claim 22, wherein said preventing comprises shielding said separated storage node from incoming light.

27. (Original) A method as in claim 25, further comprising enabling a first reset operation which resets a value of said storage node, and enabling a second reset operation, which resets a value of said photoreceptor.

28. (Original) A method as in claim 27, wherein said first and second reset operations each comprises activating a gate within said separate semiconductor well.

29. (Original) A method as in claim 28, wherein said photoelectrically induced signal is a signal indicative of charge.

30. (Original) A method as in claim 28, wherein said photoreceptor includes a photodiode.

31. (Original) A method as in claim 28, wherein said photoreceptor includes a photogate.

32. (Original) A method as in claim 25, further comprising preventing said photoreceptor from acquiring a photoelectrically induced signal which is greater than a specified amount.

33. (Original) A method as in claim 25, further comprising forming a second separated semiconductor well for each of the plurality of photoreceptors in the array.

34-52. (Canceled)